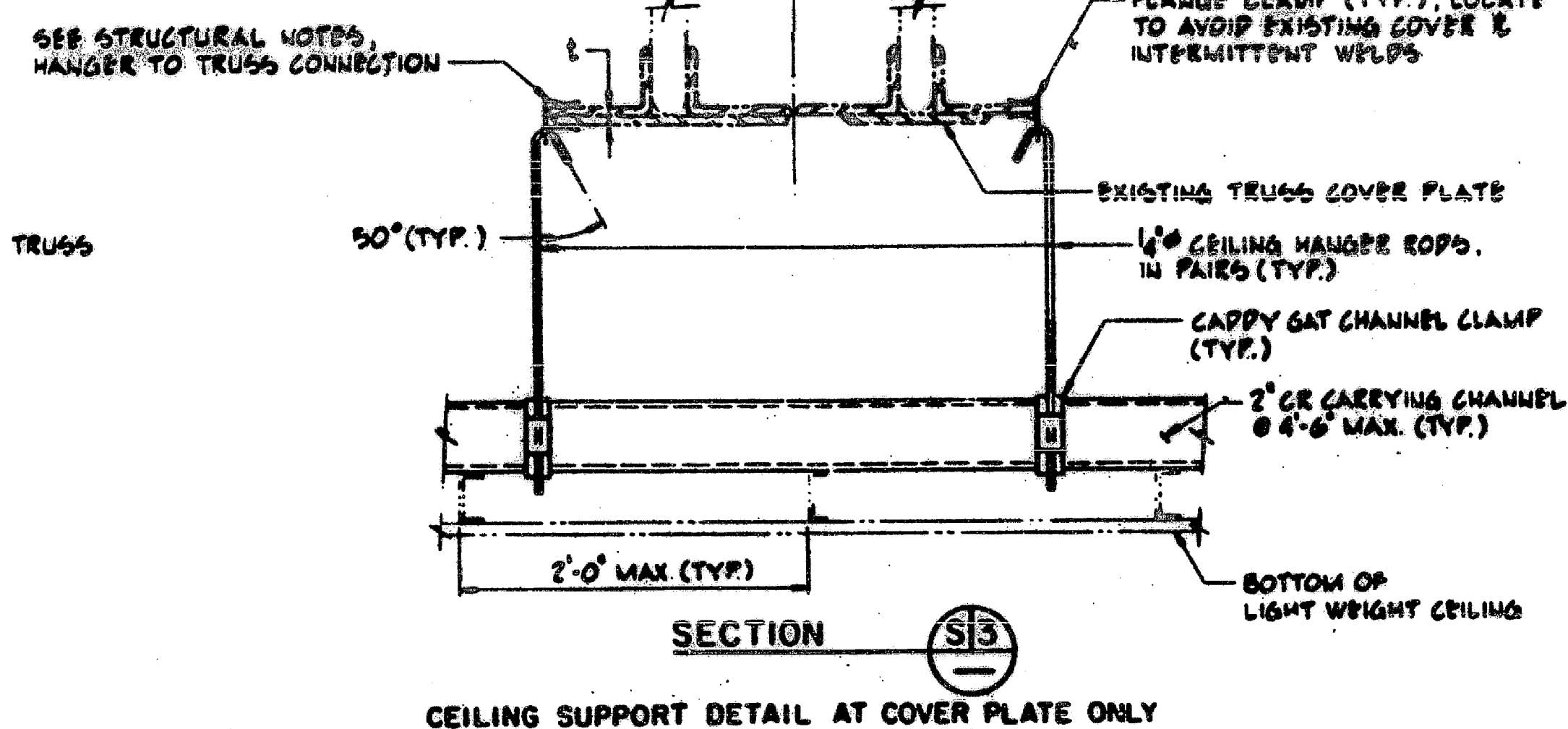


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drawing title **STRUCTURAL DETAILS** dwg. no. **5-104-1**

**MANCINI • DUFFY**  
**MANCINI DUFFY ASSOCIATES**  
**SPACE PLANNERS AND INTERIOR DESIGNERS**  
**ONE WORLD TRADE CENTER, NEW YORK, N.Y. 10048 212 936-1260**



6'-0" (TYP.)  
TO & DOUBLE TRUSS

PRE SEND PRIOR TO INSTALLATION

1/2" CEILING HANGER RODS  
IN PAIRS (TYP.)

CARRY CAT CHANNEL  
CLAMP (TYP.)

2" OR CARRYING CHANNEL  
6'-0" MAX. (TYP.)

PULLING MEMBER (TYP.)

2'-0" MAX.  
(TYP.)

BOTTOM OF LIGHT WEIGHT CEILING

EXISTING FLOOR DOUBLE TRUSS

SECTION S2

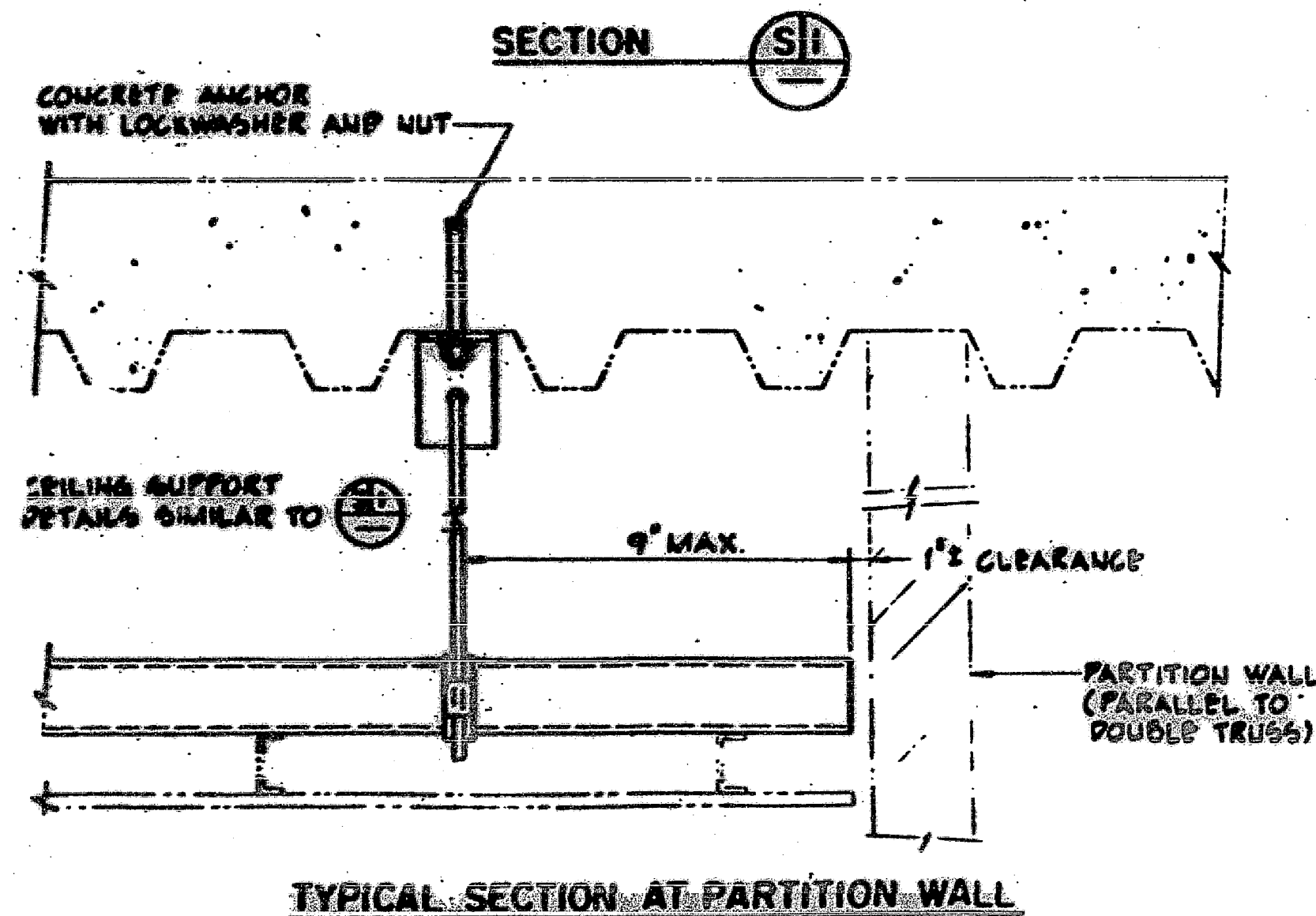
18" (MIN.)

1 1/2" 2" 2" 1 1/2"

2" CARRYING CHANNEL

WIRE TIES, MINIMUM THREE LOOPS WITH THREE TWISTS (TYP.)

TYPICAL 2" CHANNEL SPLICE DETAIL



- NOTES:**
- MATERIALS**
    - CONCRETE ANCHORS - 5" Ø LIEBIG SAFETY BOLTS (TYPE LON OR LSH / WITH A MINIMUM EMBEDMENT OF 12", OR MULTI HSL OR HSLD ANCHORS, SIZE M8 WITH A MINIMUM EMBEDMENT OF 2" AND A MAXIMUM EMBEDMENT LENGTH OF 3".
    - CLIP ANGLES - HOT ROLLED ASTM A36 STEEL.
    - HANGERS - 1" Ø A36 GALVANIZED STEEL ROD
    - CARRYING CHANNEL - 2" COLD ROLLED CHANNELS (FY 33KSI MIN) - MINIMUM WEIGHT 9.90 LBS./1000 FT. (PAINTED)
    - HANGER TO TRUSS CONNECTION - AT COVER PLATE ONLY
      - A. THICKNESS OF BOTTOM FLANGE OF TRUSS  $t \geq 0.75"$ :  
CADDY HEAVY DUTY FLANGE CLAMPS MANUFACTURED BY ERICO PRODUCTS INC. - BSA #1312-64-5W.
      - B. THICKNESS OF BOTTOM FLANGE OF TRUSS  $t > 0.75"$ :  
UNIVERSAL C-CLAMP PIS 78S (WIDE THROAT) 0.1155 EACH AS MANUFACTURED BY GRINNELL CORP. OR APPROVED EQUAL. INSTALL C-CLAMP WITH SET SCREW IN TOP POSITION.
    - HANGER TO CARRYING CHANNEL - CADDY 6AT CHANNEL CLAMP, MODEL 482LS, MANUFACTURED BY ERICO PRODUCTS INC. - BSA #131-65-5W.
    - WIRE TIES - 16 GA. STAINLESS STEEL A191 - TYPE 304 OR MONEL METAL.
  - REMOVAL OF FIREPROOFING SHALL BE KEPT TO A MINIMUM AND SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE PORT AUTHORITY ARCHITECT.
  - THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT CATALOG CUTS, SAMPLES, LAYOUT DRAWINGS AND DETAILS OF ALL COMPONENTS OF THE CEILING SUPPORT SYSTEM FOR THE PORT AUTHORITY ARCHITECTS APPROVAL PRIOR TO THE START OF ANY WORK IN THE FIELD.
  - OTHER CEILING COMPONENTS AND DETAILS NOT SHOWN SHALL CONFORM TO THE LATEST NEW YORK CITY BUILDING CODE REQUIREMENTS.
  - THE KAMSET FASTENING SYSTEM WITH LADD DRIVE PIN # 684 (12" LONG), POWER LEVEL "RED" FOR INSTALLATION, AND THE LADD CEILING CLIP #651 IS PERMITTED TO SUBSTITUTE THE HANGER TOP CONNECTION DETAIL SHOWN IN SECTION 401, ANCHORED INTO 3000 PSI, LIGHT WEIGHT CONCRETE SLAB OVER GALVANIZED METAL DECK.